

Amendments to the Claims:

1 (currently amended). ~~An apparatus~~ A processor readable file structure for ~~providing~~ a multimedia streaming service, comprising:

a at least one header object ~~having basic~~ including file and application service information about a file and information for an application service;

at least one data object synchronizing multimedia data with temporal information and storing ~~it~~ said synchronized multimedia data, said at least one data object comprising at least one video block and at least one audio block, each of said at least one video block and said at least one audio block including a descriptor for information classification, a time stamp field and a reserved field for future applications, said at least one data object synchronizing said at least one video block and said at least one audio block according to said time stamp field without defining a real-time transport protocol (RTP); and

at least one key index object storing ~~an~~ offset and temporal information of a said at least one video block, said stored information being used having a key frame in video blocks as a basis on a time axis for random access and reproduction.

2 (currently amended). ~~The apparatus for providing a streaming service according to~~ file structure of claim 1, wherein ~~the~~ said at least one header object ~~includes:~~ comprises:

a descriptor for information classification ~~or index of a file;~~

a FILEINFO (~~file information~~) field storing ~~overall~~ file information ~~of the file;~~

an AUDIOINFO (~~audio information~~) field storing audio media information ~~about audio media;~~

a VIDEOINFO (~~video information~~) field storing video media information ~~about video media in video blocks of the data object;~~

an OFFSETINFO (~~offset information~~) field providing positional information on said at least one data object and said at least one key index object defining a position of the data object and a position of the key index object in the file; and

~~a CLIPINFO (additional information) field providing storing additional user information to a user.~~

3 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 2, wherein the said at least one header object further includes a comprises at least one reserved field.~~

4 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 3, wherein the said at least one reserved field is a TEXTINFO (text information) field adding a caption function to a moving picture.~~

5 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 4, wherein the said TEXTINFO field includes:~~

- ~~a text font field indicating a font of text;~~
- ~~a text color field indicating a color of text;~~
- ~~a text size field indicating a size of text; and~~
- ~~a reserved field for future applications use.~~

6 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 2, wherein the said descriptor includes:~~

- ~~a length field indicating a total size of the header object as a byte unit indicative of a video and audio encoding data size; and~~
- ~~an object type field indicating a kind of the object.~~

7 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 2, wherein the said FILEINFO field includes:~~

- ~~a file version information field indicating version information a file format field;~~
- ~~an ID field indicating a file generation end time with a stream ID;~~
- ~~a file length field indicating the total length of the file;~~
- ~~a playtime field indicating the total reproduction time;~~

an encoding rate field indicating an encoding rate defined by a user;
a video number field indicating the number of encoded video frames in ~~the~~
said at least one data object of the file;

an I-frame number field indicating the number of key I-frames in the
encoded video frames in ~~the~~ said at least one data object of the file;

a P-frame number field indicating the number of P-frames in the encoded
video frames in ~~the~~ said at least one data object of the file;

an audio number field indicating the number of encoded audio blocks in
~~the~~ said at least one data object of the file;

a biggest video frame field indicating a the size of the biggest video frame
in the encoded video frames in ~~the~~ said at least one data object of the file; and

a reserved field ~~reserved~~ for future applications.

8 (currently amended). The ~~apparatus for providing a streaming service according~~
~~to file structure of claim 2~~, wherein ~~the~~ said AUDIOINFO field includes:

an audio codec type field ~~indicating a kind of audio codec having a~~
~~generated audio block in the data object~~;

an audio encoding rate field ~~indicating an audio encoding rate~~; and

~~an~~ reserved field ~~reserved~~ for future applications.

9 (currently amended). The ~~apparatus for providing a streaming service according~~
~~to file structure of claim 2~~, wherein ~~the~~ said VIDEOINFO field includes:

a video codec type field ~~indicating a kind of video codec having a~~
~~generated video block in the data object~~;

a video encoding rate field ~~indicating a video encoding rate~~;

a frame rate field indicating the number of encoded video frames ~~of the~~
video frame per second;

a key frame rate field ~~indicating the number of insertion frames of an I-~~
~~frame~~;

a screen size field indicating a the size of ~~the~~ an encoded screen picture;

and

a reserved field ~~reserved~~ for future applications.

10 (currently amended). The ~~apparatus for providing a streaming service according to~~ file structure of claim 2, wherein ~~the~~ said OFFSETINFO field includes:

a data offset field indicating a the position of ~~the~~ said at least one data object;

a key index offset field indicating a the position of ~~the~~ said at least one key index object ~~as an offset value in the file~~; and

a reserved field ~~reserved~~ for future applications.

11 (currently amended). The ~~apparatus for providing a streaming service according to~~ file structure of claim 2, wherein ~~the~~ said CLIPINFO field includes:

a file title field ~~indicating a title of the file~~;

an file author field ~~indicating a creator of the file~~;

a uniform resource locator (URL) ~~URL~~ field ~~indicating a URL related to the file~~; and

a file contents description field ~~providing general explanation about the file~~.

12 (currently amended). The ~~apparatus for providing a streaming service according to~~ file structure of claim 1, wherein ~~the~~ said at least one header object further includes a reserved field used ~~in~~ for upgrade version or change applications.

13 (canceled).

14 (canceled).

15 (canceled).

16 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 15, wherein the said at least one data object further includes a~~ comprises at least one media block for an additional service.

17 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 15, wherein the said at least one video block has a~~ includes a video payload (video storage) for storing video encoding frames.

18 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 15, wherein the said at least one audio block has one~~ includes an audio storing payload (audio storage) or a plurality of audio payloads for storing audio encoding frames.

19 (canceled).

20 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 19, wherein the said descriptor includes:~~

a length field indicating a the size of the video payload as a byte unit and audio encoding data; and

an object type field ~~indicating a kind of the object.~~

21 (canceled).

22 (currently amended). The ~~apparatus for providing a streaming service according to file structure of claim 1, wherein the said at least one key index object includes:~~

a descriptor for information classification or index of information; and

a KEYINFO ~~(key information)~~ field storing key frame information ~~about each key frame of video frames.~~

23 (currently amended). The ~~apparatus for providing a streaming service according to~~ file structure of claim 22, wherein ~~the~~ said descriptor includes:

a KEYINFO length field ~~indicating the total size of the KEYINFO as a byte unit~~; and

an object type field ~~indicating a kind of the object~~.

24 (currently amended). The ~~apparatus for providing a streaming service according to~~ file structure of claim 22, wherein ~~the~~ said KEYINFO field includes:

an serial key frame offset field ~~indicating an offset value of serial key frame~~; and

a time stamp field comparing a time stamp value of a pertinent key frame with a time stamp value of ~~the~~ said at least one data object.

25 (canceled).

26 (canceled).

27 (canceled).

28 (canceled).

29 (canceled).

30 (canceled).